

# Image Project Order File Cover Page

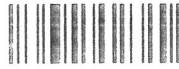
XHVZE

This page identifies those items that were not scanned during the initial production scanning phase. They are available in the original file, may be scanned during a special rescan activity or are viewable by direct inspection of the file.

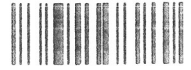
0 096 Order File Identifier

**Organizing** (done)

☐ Two-sided



☐ Rescan Needed



## RESCAN

☐ Color Items:

☐ Greyscale Items:

☐ Poor Quality Originals:

☐ Other:

## DIGITAL DATA

☐ Diskettes, No.

☐ Other, No/Type:

## OVERSIZED (Scannable)

☐ Maps:

☐ Other Items Scannable by a Large Scanner

## OVERSIZED (Non-Scannable)

☐ Logs of various kinds:

☐ Other::

## NOTES:

BY: Angela JOSEPH Date: 12-17-14 /s/ JES

## Project Proofing



BY: Angela JOSEPH Date: 12-17-14 /s/ JES

## Scanning Preparation

\_\_\_\_\_ x 30 = \_\_\_\_\_ + \_\_\_\_\_ = TOTAL PAGES 9  
(Count does not include cover sheet)

BY: Angela JOSEPH Date: 12-17-14 /s/ JES

## Production Scanning



**Stage 1** Page Count from Scanned File: 10 (Count does include cover sheet)

Page Count Matches Number in Scanning Preparation: YES NO

BY: Angela JOSEPH Date: 12-17-14 /s/ JES

**Stage 1** If NO in stage 1, page(s) discrepancies were found: YES NO

BY: Angela \_\_\_\_\_ Date: \_\_\_\_\_ /s/ \_\_\_\_\_

Scanning is complete at this point unless rescanning is required.



## ReScanned



BY: Angela \_\_\_\_\_ Date: \_\_\_\_\_ /s/ \_\_\_\_\_

Comments about this file:

Quality Checked



**INDEX OTHER ORDER NO. 96**

Draft Regulations  
Geologic Data and Logs

1. ----- Draft
2. ----- Emails re: Amended Regulations

**INDEX OTHER ORDER NO. 96**



## Colombie, Jody J (DOA)

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**From:** Wallace, Chris (DOA sponsored)  
**Sent:** Tuesday, June 05, 2012 11:13 AM  
**To:** Ballantine, Tab A (LAW)  
**Cc:** Colombie, Jody J (DOA)  
**Subject:** FW: More Amended Regulations 20 AAC 25 071 and 20 AAC 25 537  
**Attachments:** 110817\_Regulation\_20 AAC 25 071 edit.doc; 110817\_Regulation\_20 AAC 25 537 edit.doc

Tab,  
Following up on the email trail below from Tom. Can you please review and approve? Please let me know if you have any questions or concerns.

Thanks and Regards,  
Chris

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**From:** Maunder, Thomas E (DOA)  
**Sent:** Thursday, November 10, 2011 11:12 AM  
**To:** Ballantine, Tab A (LAW)  
**Subject:** More Amended Regulations

Tab,  
Here is the next installment of proposed regulation amendments. Please see my note to Cathy for comments.  
If you are OK with the proposed changes, then I get with Jody on formatting issues. As noted previously, since there will be other amendments, I propose we get all done that we can and do one notice looking to possibly have a hearing in January.  
Thanks in advance,  
Tom

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**From:** Foerster, Catherine P (DOA)  
**Sent:** Thursday, November 10, 2011 11:03 AM  
**To:** Maunder, Thomas E (DOA)  
**Subject:** RE: More Amended Regulations

Go for it.

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**From:** Maunder, Thomas E (DOA)  
**Sent:** Thursday, November 10, 2011 11:02 AM  
**To:** Foerster, Catherine P (DOA)  
**Subject:** More Amended Regulations

Commissioner Foerster,  
Attached are two proposed regulation amendments. These documents were developed by Steve, Guy and I. The amendment for 25.071 was prompted after Rianne discovered that some logs, not required by regulation, that had been run had not been filed by an Operator. The message trail from August is included. The proposed wording change clarifies log submittal requirements. The amendment for 25.537 incorporates the statute change of a few years ago where confidentiality for wells other than exploratory and stratigraphic was removed. Both Steve and Guy agree with moving these two amendments forward.  
I request your approval to forward this to Tab for review/action. I will coordinate with Jody about proper format when she returns.  
Thanks in advance for your consideration.  
Tom Maunder, PE  
Sr. Petroleum Engineer

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**From:** Maunder, Thomas E (DOA)  
**Sent:** Wednesday, November 09, 2011 12:31 PM

**To:** Davies, Stephen F (DOA); Schwartz, Guy L (DOA)  
**Subject:** Amended Regulations

Steve and Guy,

We worked on these items in mid August and so far as I know they haven't gone anywhere. Cathy assigned me to develop frac regs for when she returns in mid-Dec. That could have an effect on 030 and 005 so I don't propose to move them forward now but I think we can move 071 and 537.

Are you both in agreement with this?

Tom

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**From:** Davies, Stephen F (DOA)  
**Sent:** Thursday, August 18, 2011 10:13 AM  
**To:** Norman, John K (DOA)  
**Cc:** Maunder, Thomas E (DOA); Schwartz, Guy L (DOA)  
**Subject:** Cement Quality Logs

John,

The failure to file cement quality logs (CQLs) was apparently restricted only to Marathon's production wells. Rianne and Guy did not find any missing CQLs for injection wells. Missing CQLs were requested from Marathon, and Marathon promptly complied.

We have a few suggestions based on our review of the CQL issue.

1. Modify regulation 20 AAC 25.030, Casing and Cementing, to include CQL requirements along with the requirement for an approved Sundry Application prior to hydraulically fracturing a well (see attached file 20 AAC 25 030 edit.doc; red is used to highlight added text and blue to highlight deleted text). By having a sundry requirement for all fracturing operations, we can more easily track the jobs. This also gives the AOGCC a chance to review the cementing data and CQLs, and the opportunity to request additional information or logs if we deem it necessary before approving the sundry. This does not make a requirement of a CQL for all fractured wells, but it gives the AOGCC the option to request one if we think it is needed.
2. Modify regulation 20 AAC 25.071, Geologic Data and Logs, to remove any ambiguity about well log submittal requirements.
3. Emphasize to Howard that during the compliance check for every well, a close reading of the operational summary is required to determine which logs were recorded. He then needs to insure that those logs have been submitted to the AOGCC. If any are missing, he must have a consistent process to request the missing information from the operator, and he must establish a system to track those requests to insure that they are fulfilled.

In addition, we also:

1. Modified the text of regulation 20 AAC 25.537, Public and Confidential Information, to clarify that development and service well information is not confidential; and
2. Modified the text of regulation 20 AAC 25.005, Permit to Drill, to:
  - a. eliminate the \$100 permit application fee,
  - b. clarify coordinate system requirements (specifies NAD 27), and
  - c. arrange the other requirements in a more logical manner.

Please review our suggested changes and let us know if you have questions or comments.

Thanks,  
Guy, Tom, Steve

**From:** Norman, John K (DOA)  
**Sent:** Thursday, August 18, 2011 9:37 AM  
**To:** Davies, Stephen F (DOA)  
**Subject:** FW: last week's presentation.

Steve, what is status on review of the files missing cement quality logs?

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**From:** Norman, John K (DOA)  
**Sent:** Monday, August 15, 2011 3:51 PM  
**To:** Dan T Seamount; Cathy P Foerster  
**Subject:** FW: last week's presentation.

Problem with the Hearing Room overhead projector has been diagnosed and fixed. The box, through which cables were routed, had two separate mechanisms fail. The combination of the two brought down the system. We are now back in operation. Elaine stayed late last Wednesday to work on this and she has been diligent in getting us back in operation, with a good attitude. Roby deserves special recognition for initially diagnosing the suspected problem. Using a by-pass, he isolated the problem box allowing us to quickly focus on getting it fixed.

The issue of CBLs missing from files is still being investigated by Steve in consultation with Tom and Guy. We think problem is limited to Marathon well files but will continue until we establish whether problem involves just Marathon or whether there was a failure by AOGCC staff to notice logs listed as run but not included with data filed with us. If counseling of a staff member is needed, that will be done.

John



## **20 AAC 25.071. Geologic data and logs**

~~[(a) An operator shall log the portion of the well below the conductor pipe by either a complete electrical log or a complete radio activity log unless the commission specifies which type of log is to be run.]~~

**(a) An operator shall:**

**(1) log the portion of the well below the conductor pipe by either a complete electrical log or a complete radioactivity log unless the commission specifies which type of log is to be run;**

**(2) submit an electronic image file in a format acceptable to the commission and a reproduced copy of a complete mud log or a lithology log consisting of a detailed record and description of the sequence of strata encountered, including the kind and character of the rock and all shows of hydrocarbons; a sepiia may be substituted for the electronic image file;**

**(3) submit an electronic image file in a format acceptable to the commission and a reproduced copy of all open-hole logs run, including common derivative formats such as tadpole plots of dipmeter data and borehole images produced from sonic or resistivity data, and including composite log formats; however, copies of velocity surveys and experimental logs need not be included; a sepiia may be substituted for the electronic image file;**

**(4) submit an electronic image file in a format acceptable to the commission and a reproduced copy of all cased-hole logs run, including cement quality logs, casing evaluation logs, plus other logs**

**(5) submit on electronic medium acceptable to the commission the digital data and a verification listing for all logs run, except velocity surveys and experimental logs; the verification listing must include a written description of the logical and physical format of the digital data; and**

**(6) provide the commission opportunity to examine open-hole logs for exploration or stratigraphic test wells within 72 hours of being run and prior to abandonment;**

**(b) Within 30 days after completion, suspension, or abandonment of a well, whichever occurs first, and within 30 days after completion or plugging of a well branch, if occurring at a different time, the operator shall file with the commission, unless previously filed,**

**[(1) a sepiia and a reproduced copy of a complete mud log or a lithology log consisting of a detailed record and description of the sequence of strata encountered, including the kind and character of the rock and all shows of hydrocarbons; an electronic image file in a format acceptable to the commission may be substituted for the sepiia; ]**



(2) a complete set of washed and dried, legibly identified samples of all drill cuttings, as caught by the operator in accordance with good geological practices, consisting of a minimum of one-quarter cup in volume or three ounces in weight of cuttings for each sample interval;

(3) a lithologic description and, if available, photographs of each conventional and sidewall core; conventional core descriptions must include apparent textural, fluid, and lithologic variations, including rock type, porosity, fractures, bedding plane attitudes, sedimentary structure, grain size, and presence of hydrocarbons;

(4) chips from each foot of recovered conventional core, except that chips need not be submitted until 30 days after the conventional core is analyzed; the chips must be representative of the one-foot interval, and must be approximately either one cubic inch in volume, or two ounces in weight;

(5) a list of the geologic markers encountered and the measured and true vertical depths of each marker;

[(6) a sepiam and a reproduced copy of all logs run, including common derivative formats such as tadpole plots of dipmeter data and borehole images produced from sonic or resistivity data, and including composite log formats; however, copies of velocity surveys and experimental logs need not be included; an electronic image file in a format acceptable to the commission may be substituted for the sepiam;]

[(7) a tape, diskette, or other electronic medium acceptable to the commission and a verification listing of the digital data for all logs run, except velocity surveys and experimental logs; the verification listing must include a written description of the logical and physical format of the digital data;] and

(8) the following items, or a written request proposing a date for submitting those items, subject to commission approval of that date for timeliness, if those items are unavailable within the 30-day filing period set out in this subsection:

(A) a copy of all drill stem test and production test data and charts;

(B) a brief summary of production tests, drill stem tests, wireline formation tests, and other formation tests performed, including test date, time, depth, duration, method of operation, recovered fluid types, fluid amounts, gas-oil ratio, oil gravity, pressure, and choke size;

(C) conventional and sidewall core analysis determinations, if any, of porosity, permeability, and fluid saturation;

(D) geochemical and formation fluid analyses obtained, if any.

(c) The commission will, in its discretion, waive or modify the requirements of this section for a well if those requirements would not significantly add to the geologic knowledge of the area in light of the information that is available from other wells in the area.

(d) In this section

(1) "experimental logs" means logs that are not commercially available from a well logging contractor; and

(2) "velocity survey" means a survey, the primary purpose of which is to determine velocity of seismic waves through formations penetrated by a well by measuring travel times of seismic pulses from or near the surface to geophones placed at various depths in the well.